

3 Residual speech signal compression: an experiment in the practical application of

June 1990 Proceedings of the 3rd international conference on Industrial and

neural network technology

Lorien Pratt, Kathleen D. Cebulka, Peter Clitherow

engineering applications of artificial intelligence and expert systems -Volume 2 IEA/AIE '90

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Neural networks are a popular area of research today. However, neural network algorithms have only recently proven valuable to application problems. This paper seeks to aid in the process of transferring neural network technology from research to a development environment by describing our experience in applying this technology. The application studied here is Speaker Identity Verification (SIV), which is the task of verifying a speaker's identity by comparing the speaker's voice ...

4 The development of a methodology for the use of neural networks and simulation modeling in system design Mahdi Nasereddin, Mansooreh Mollaghasemi December 1999 Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1 Publisher: ACM Press Full text available: pdf(63.14 KB) Additional Information: full citation, references, index terms 5 Constructing deterministic finite-state automata in recurrent neural networks Christian W. Omlin, C. Lee Giles November 1996 Journal of the ACM (JACM), Volume 43 Issue 6

Publisher: ACM Press

Full text available: pdf(646.04 KB)

Additional Information: full citation, abstract, references, citings, index terms

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6 Is designing a neural network application an art or a science?

Roman Erenshteyn, Richard Foulds, Scott Galuska July 1994 ACM SIGCHI Bulletin, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(665.19 KB) Additional Information: full citation, abstract, index terms

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7 Spacial classification and multi-spectral fusion with neural networks

Craig Harston

May 1991 Proceedings of the conference on Analysis of neural network applications

Publisher: ACM Press

Full text available: Dpdf(546.63 KB) Additional Information: full citation, references, index terms

8 An intelligent agent approach for teaching neural networks using LEGO® handy

board robots

Susan P. Imberman

September 2004 Journal on Educational Resources in Computing (JERIC), Volume 4 Issue

Publisher: ACM Press

Full text available: Topdf(898.91 KB) Additional Information: full citation, abstract, references, index terms

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9 Real time application of artificial neural network for incipient fault detection of





induction machines

Mo-yuen Chow, Sui Oi Yee

June 1990 Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems -Volume 2 IEA/AIE '90

Publisher: ACM Press

Full text available: 📆 pdf(751.83 KB) Additional Information: full citation, abstract, references, index terms

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Mining sales data using a neural network model of market response



Thomas S. Gruca, Bruce R. Klemz, E. Ann Furr Petersen

June 1999 ACM SIGKDD Explorations Newsletter, Volume 1 Issue 1

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Keywords: market response model, neural networks, sales/market share forecasting

A multi-neural-network learning for lot sizing and sequencing on a flow-shop



In Lee, Jatinder N. D. Gupta, Amar D. Amar March 2001 Proceedings of the 2001 ACM symposium on Applied computing Publisher: ACM Press Full text available: pdf(52.28 KB) Additional Information: full citation, references, index terms **Keywords**: flow-shop, lot sizing, neural networks, sequencing 12 NeuroAnimator: fast neural network emulation and control of physics-based models Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton July 1998 Proceedings of the 25th annual conference on Computer graphics and interactive techniques Publisher: ACM Press Full text available: pdf(28.26 MB) Additional Information: full citation, references, citings, index terms **Keywords**: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation On the optimal capacity of binary neural networks: rigorous combinatorial approaches Jeong Han Kim, James R. Roche July 1995 Proceedings of the eighth annual conference on Computational learning theory Publisher: ACM Press Full text available: pdf(805.24 KB) Additional Information: full citation, references, index terms 14 A first undergraduate course in neural networks Adel M. Abunawass, Omar Bukhres, Theresia G. Fisher, Kenneth Magel February 1990 ACM SIGCSE Bulletin, Proceedings of the twenty-first SIGCSE Volume 22 Issue 1

technical symposium on Computer science education SIGCSE '90,

Publisher: ACM Press

Full text available: pdf(539.33 KB) Additional Information: full citation, references, index terms

15 Continuous learning: a design methodology for fault-tolerant neural networks

Vincenzo Piuri June 1990 Proceedings of the 3rd international conference on Industrial and

engineering applications of artificial intelligence and expert systems -Volume 2 IEA/AIE '90

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(1.36 MB)

Fault tolerance in artificial neural networks is an important feature, in particular when the application is critical or when maintenance is difficult. This paper presents a general design methodology for designing fault-tolerant architectures, starting from the behavioral description of the nominal network and from the nominal algorithm. The behavioral level is considered to detect errors due to hardware faults, while system survival is guaranteed by the reactivation of learning mechanisms ...

16 Inspection effectiveness in software development: a neural network approach
Tzvi Raz, Alan T. Yaung

October 1994 Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

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17 Poster papers: Extracting decision trees from trained neural networks

Olcay Boz

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(683.99 KB) Additional Information: full citation, abstract, references, index terms

Neural Networks are successful in acquiring hidden knowledge in datasets. Their biggest weakness is that the knowledge they acquire is represented in a form not understandable to humans. Researchers tried to address this problem by extracting rules from trained Neural Networks. Most of the proposed rule extraction methods required specialized type of Neural Networks; some required binary inputs and some were computationally expensive. Craven proposed extracting MofN type Decision Trees from Neur ...

18 A speech synthesizer for Persian text using a neural network with a smooth ergodic

♠ HMM

F. Hendessi, A. Ghayoori, T. A. Gulliver

March 2005 ACM Transactions on Asian Language Information Processing (TALIP),
Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(295.74 KB) Additional Information: full citation, abstract, references, index terms

The feasibility of converting text into speech using an inexpensive computer with minimal memory is of great interest. Speech synthesizers have been developed for many popular languages (e.g., English, Chinese, Spanish, French, etc.), but designing a speech synthesizer for a language is largely dependant on the language structure. In this article, we develop a Persian synthesizer that includes an innovative text analyzer module. In the synthesizer, the text is segmented into words and after prep ...

Keywords: Hidden Markov model, TD-PSOLA

19 Software for neural networks

James A. Anderson, Edward J. Wisniewski, Susan R. Viscuso

March 1988 ACM SIGARCH Computer Architecture News, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, index terms

Neural networks "compute" though not in the way that traditional computers do. It is necessary to accept their weaknesses to use their strengths. We discuss some of the assumptions and constraints that govern operation of neural nets, describe one particular non-linear network---the BSB model---in a little detail, and present two applications of neural network computations to illustrate some of the peculiarities inherent in this

architecture. We show how a network can be trained to estimate answ ...

Neural networks: a new dimension in expert systems applications

Mohammed H. A. Tafti

September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems

Publisher: ACM Press

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March 2002 The Journal of Machine Learning Research, Volume 2

Publisher: MIT Press

Full text available: pdf(260.73 KB) Additional Information: full citation, abstract

A family of regularized least squares regression models in a Reproducing Kernel Hilbert Space is extended by the kernel partial least squares (PLS) regression model. Similar to principal components regression (PCR), PLS is a method based on the projection of input (explanatory) variables to the latent variables (components). However, in contrast to PCR, PLS creates the components by modeling the relationship between input and output variables while maintaining most of the information in the inpu ...

2 Modeling II: 3D object reconstruction and representation using neural networks

Lim Wen Peng, Siti Mariyam Shamsuddin

June 2004 Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04

Publisher: ACM Press

Full text available: pdf(468.49 KB) Additional Information: full citation, abstract, references

3D object reconstruction is frequent used in various fields such as product design, engineering, medical and artistic applications. Numerous reconstruction techniques and software were introduced and developed. However, the purpose of this paper is to fully integrate an adaptive artificial neural network (ANN) based method in reconstructing and representing 3D objects. This study explores the ability of neural networks in learning through experience when reconstructing an object by estimating it ...

Keywords: affined transformation, back propagation, multilayer feed-forward neural networks, object space, reconstruction, representation, third order polynomial

3 Neural networks and artificial intelligence

N. E. Sondak, V. K. Sondak

February 1989 ACM SIGCSE Bulletin, Proceedings of the twentieth SIGCSE technical symposium on Computer science education SIGCSE '89, Volume 21 Issue 1

Publisher: ACM Press

Full text available: 🔂 pdf(483.88 KB) Additional Information: full citation, abstract, references, citings, index

Neural networks have been called "more important than the atomic bomb" and have received a major funding commitment from DARPA. Nevertheless, it is difficult to find even a mention of neural network concepts and applications in many computer science or information systems curricula. In fact, few computer science or information systems faculty are aware of the profound implications of neurocomputing on the future of their field. This paper contends that neural networks must be a ...

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13	NeuroAnimator: fast neural network emulation and control of physics-based models
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14	On the optimal capacity of binary neural networks: rigorous combinatorial approaches
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16	
16	Continuous learning: a design methodology for fault-tolerant neural networks Vincenzo Piuri



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Publisher: IBM Press

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Artificial neural network model-based run-to-run process controller

Wang, X.A.; Mahajan, R.L.;

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Volume 92, Issue 1, Jan 2004 Page(s):6 - 21 Digital Object Identifier 10.1109/JPROC.2003.820534

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Issue 0, Part 20000, 19-21 Oct. 1993 Page(s):862 - 865 vol.2 Digital Object Identifier 10.1109/TENCON.1993.320149

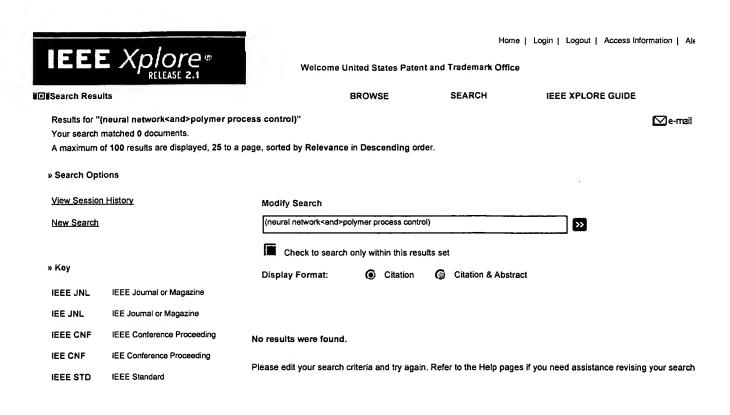
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Lightbody, G.; Irwin, G.W.; Taylor, A.; Kelly, K.; McCormick, J.; Control, 1994. Control '94. Volume 1., International Conference on 21-24 Mar 1994 Page(s):237 - 242 vol.1

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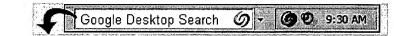
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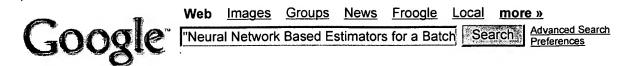
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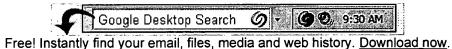
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